

EXHIBIT H

Biographical Sketch of BenMohamed in proposal 1R01AI150091 declaring BenMohamed to be a scientist at Sunomix.

Contact PD/PI: BENMOHAMED, LBACHIR

OMB No. 0925-0001/0002 (Rev. 08/12 Approved Through 8/31/2015)

BIOGRAPHICAL SKETCH

NAME: Lbachir BenMohamed

eRA COMMONS USER NAME: Lbenmohamed

POSITION TITLE: **Professor of Immunology**

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	COMPLET DATE	FIELD OF STUDY
University Paris VII, Paris, France	B.S.	06/1990	Biochemistry
Pasteur Institute, Paris, France	M.S.	06/1991	Immuno-parasitology
Pasteur Institute & University Paris VII, Paris, France	Ph.D.	03/1997	Immunology
City of Hope National Medical Center, Duarte, CA	Post. Doc.	12/1998	Viral Immunology
Beckman Research Institute of Immunology, CA	Post. Doc.	12/2000	T cell Immunology

A. Personal Statement:

The goal of this R01 proposal entitled "**A Novel Prime/Pull Therapeutic Vaccine to Prevent Recurrent Genital Herpes**" is to develop a novel and powerful T cell-based immunotherapeutic vaccine with the potential to produce a sustained clinical response to recurrent genital herpetic disease.

I am the principal investigator on this proposal and I am responsible for its conception and in coordinating the collaboration with 6 other co-investigators and collaborators (see list below).

I will supervise the data collection and analysis and I will be involved in the data reporting. I have the expertise, leadership, and motivation to successfully carry out the proposed work. I have been a principal investigator on successfully carried out several NIH R01 grant projects. I have worked on cellular and molecular immunology of infectious diseases for over 25 years, beginning as a graduate and post doc at the Pasteur Institute (France). My lab has been at the forefront of genital herpes immunology and immunotherapeutic vaccine research for 15 years and is internationally recognized as a leader in that field. I have published over 100 peer-reviewed papers, the majority in high impact journals, including *Nature Medicine*, *The Journal of Immunology*, *Mucosal Immunology*, and *The Journal of Virology*.

As an expert in genital herpes infection and mucosal immunity, I have gathered a multidisciplinary team that includes six top basic scientists in the following fields (all at UCI): (1) Microscopy (Dr. James V. Jester), (2) Mathematical modeling (Dr. Elizabeth Read), (3) Biostatistics (Dr. Christine McLaren), (4) Single-cell transcriptional profiling specialist (Dr. Melanie Oakes), (5) Bioinformaticist (Dr. Jenny Wu); T cell immunity and T-cell based vaccines (Dr. Rafi Ahmed).

This multidisciplinary team of leading researchers will fundamentally improve existing concepts of genital herpes infection and immunity to develop a therapeutic vaccine against recurrent herpes in the the 6256 model.

B. Positions and Honors:

Positions and Employment:

1998-1999 Post Doc, Dept. of Hematology/Bone Marrow transp., City of Hope Medical Center, CA.
 1999-2000 Research Fellow: Dept. of Immunology. Beckman Research Institute, City of Hope, CA,
 2001-2002 Scientist. Ophthalmology Research. Cedars-Sinai Medical Center, Los Angeles, CA.
 2002-2007 Assistant Professor and Director Cellular Mol. Immunology Laboratory, UC Irvine, Irvine, CA
 2007-2014 Associate Professor and Director Cellular Mol. Immunology Laboratory, UC Irvine, Irvine, CA
 2014-present Full Professor & Director Cellular & Molecular Immunology Laboratory, UC Irvine, Irvine, CA

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Biosketches

Contact PD/PI: BENMOHAMED, LBACHIR

OMB No. 0925-0001/0002 (Rev. 08/12 Approved Through 8/31/2015)

2016-present Scientist Immunologist, Sunomix Therapeutics, Inc., San Diego, CA

Biographical Sketch of BenMohamed in proposal 1R01AI158060 declaring BenMohamed to be a scientist at Sunomix.

Contact PD/PI: BENMOHAMED, LBACHIR

BIOGRAPHICAL SKETCH

NAME: Lbachir BenMohamed

eRA COMMONS USER NAME: Lbenmohamed

POSITION TITLE: **Professor of Immunology**

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	COMPLET DATE	FIELD OF STUDY
University Paris VII, Paris, France	B.S.	06/1990	Biochemistry
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City of Hope National Medical Center, Duarte, CA	Post. Doc.	12/1998	Viral Immunology
Beckman Research Institute of Immunology, CA	Post. Doc.	12/2000	T cell Immunology

A. Personal Statement:

The goals of this R01 grant application entitled "*Developing a Multi-epitope, Pan-Coronavirus Vaccine*" are to design, produce, and preclinically test the multi-epitope pan-Coronavirus vaccine candidates (designated as Pan-CoV vaccines), delivered mucosally using a self-assembling protein nanoparticles (SAPNs) Ag delivery platform.

I am an immunologist and virologist that graduated from Pasteur Institute, Paris, France, with a strong career focus on vaccine development for viruses. I will bring to the project more than 30 years of experience in cellular and molecular immune responses to infectious viral pathogens. I have authored more than 100 peer-reviewed papers on immunology, virology and vaccine development.

For over 20 years, I am the founder and the head of Cellular and Molecular Immunology Laboratory at UC Irvine, which has been working on viral infection, immunity and vaccine development projects. Our team is recognized as a world leader in the fields of herpes T cell immunity, memory T cells and T-cell based herpes vaccines and immunotherapies. We pioneered "asymptomatic" viral epitope mappings for both CD4⁺ and CD8⁺ T cells and the identification of inflammasomes pathways associated with inflammatory responses induced by virulent and non-virulent strains of herpes virus in human and animal models.

I have the expertise, leadership, and motivation to successfully carry out the proposed work. I have been the PI on successfully carried out NIH R21, R03 and R01 grant projects. I have worked on cellular and molecular immunology of infectious diseases for over 25 years, beginning as a graduate and post doc at the Pasteur Institute (France). I have devoted more than 20 years to understanding basic mechanisms of epitope mapping, antigen recognition and immune responses, measuring immune activity, and developing disease intervention strategies against many viral infection and disease. I have published over 100 peer-reviewed publications, most in herpes immunology, including papers in *Nature Medicine*, *The Journal of Virology*, *The Journal of Immunology*, *Mucosal Immunology*, *Vaccine*, *Human Immunology* and *Investigative in Ophthalmology and Visual Sciences*.

For this project, I have gathered a multidisciplinary team of 9 additional top basic scientists and clinicians with complementary expertise required for completion of this vaccine project. These include Dr. Buchmeier brings to the project more than 35 years of experience with the Coronaviruses including SARS-CoV (see *Investigators section*).

Biosketches

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 2001-2002 Scientist, Ophthalmology Research, Cedars-Sinai Medical Center, Los Angeles, CA.
 2002-2007 Assistant Professor and Director Cellular Mol. Immunology Laboratory, UC Irvine, Irvine, CA
 2007-2014 Associate Professor and Director Cellular Mol. Immunology Laboratory, UC Irvine, Irvine, CA
 2014-present Full Professor & Director Cellular & Molecular Immunology Laboratory, UC Irvine, Irvine, CA
 2016-present **Scientist Immunologist, Sunomix Therapeutics, Inc., San Diego, CA**

Biographical Sketch of BenMohamed in proposal 5R21AI147499 declaring BenMohamed to be a scientist at Sunomix (page 15).

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2001-2002	Scientist. Ophthalmology Research. Cedars-Sinai Medical Center, Los Angeles, CA.
2002-2007	Assistant Professor and Director Cellular Mol. Immunology Laboratory, UC Irvine, Irvine, CA
2007-2014	Associate Professor and Director Cellular Mol. Immunology Laboratory, UC Irvine, Irvine, CA
2014-present	Full Professor & Director Cellular & Molecular Immunology Laboratory, UC Irvine, Irvine, CA
2016-present	Scientist Immunologist, Sunomix Therapeutics, Inc., San Diego, CA

